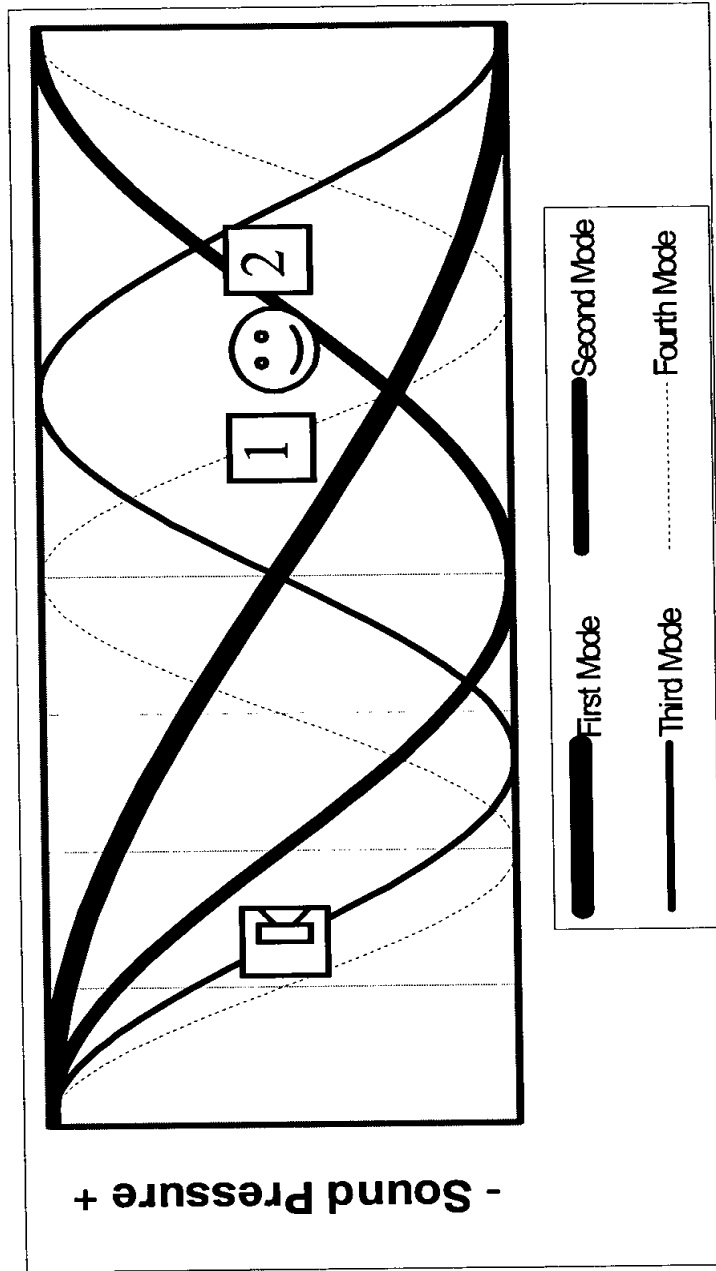


FIG. 1



**PRIOR ART**

**FIG. 2**

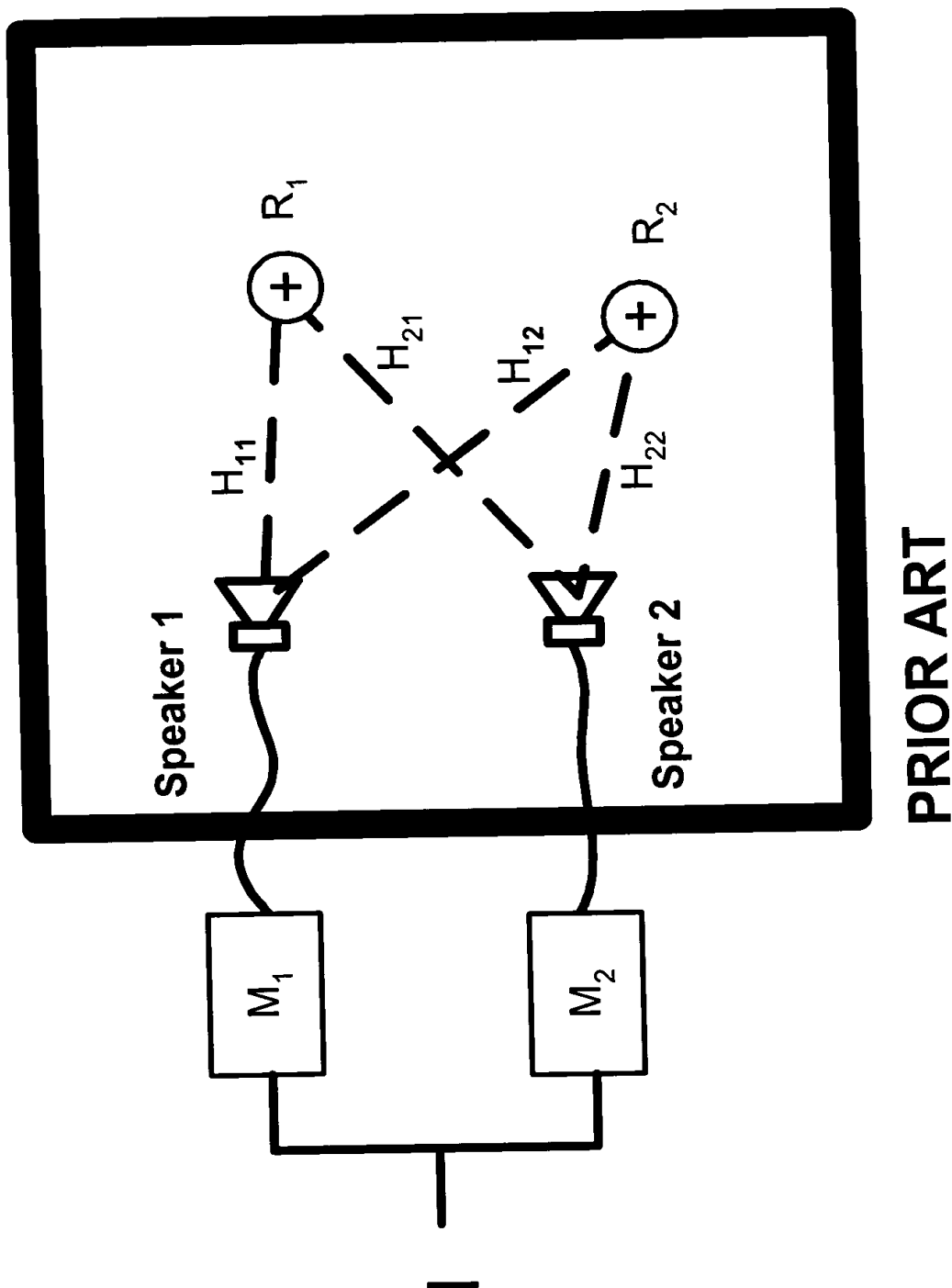
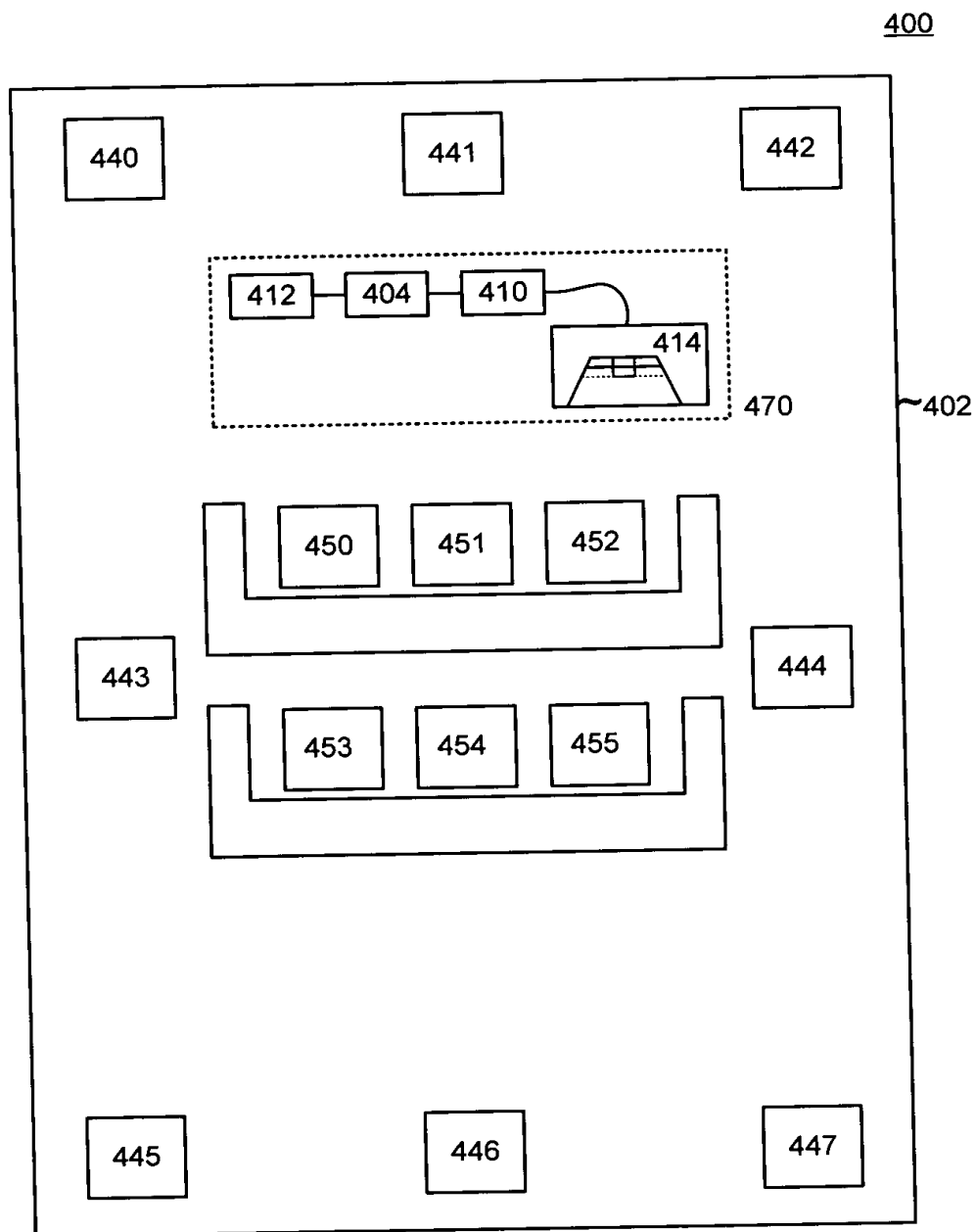


FIG. 3

**FIG. 4**



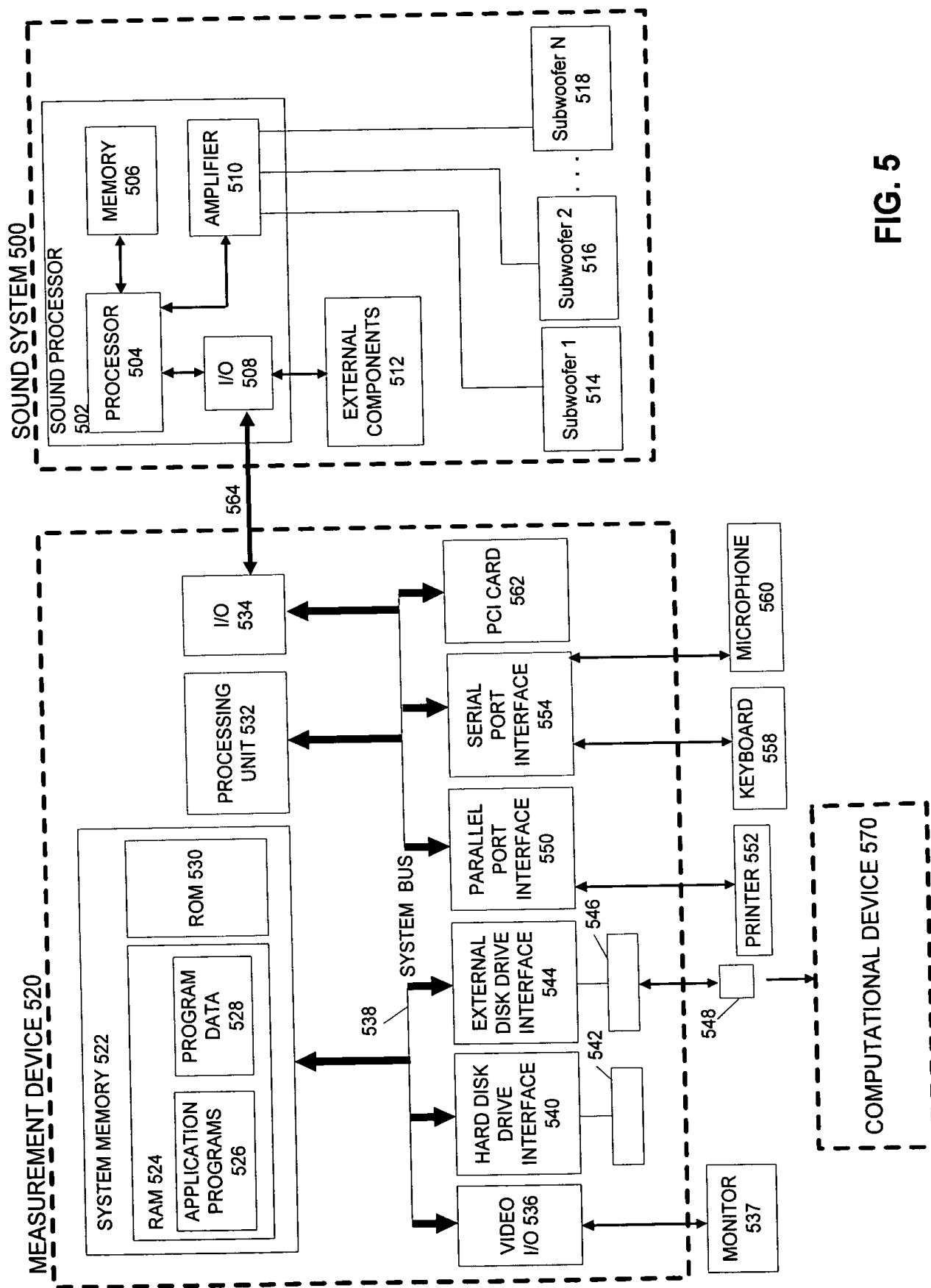


FIG. 5

**FIG. 6**

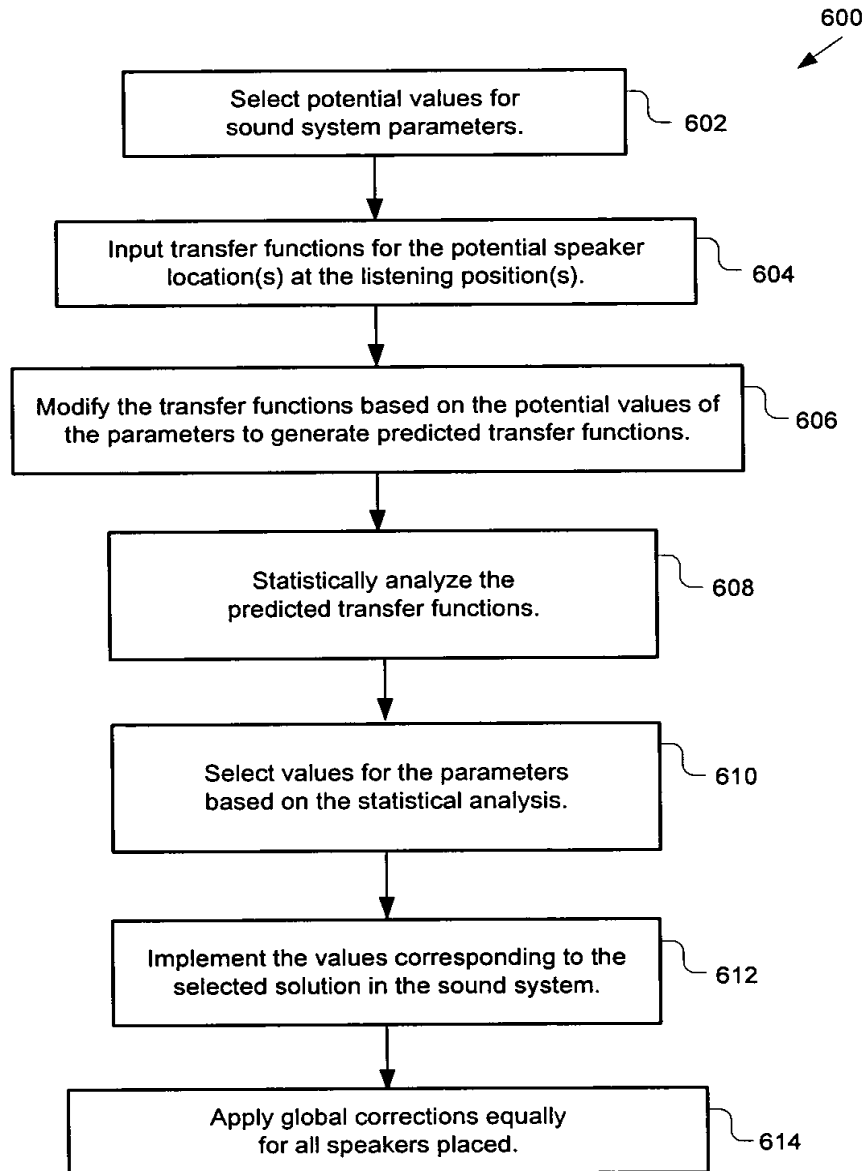


FIG. 7

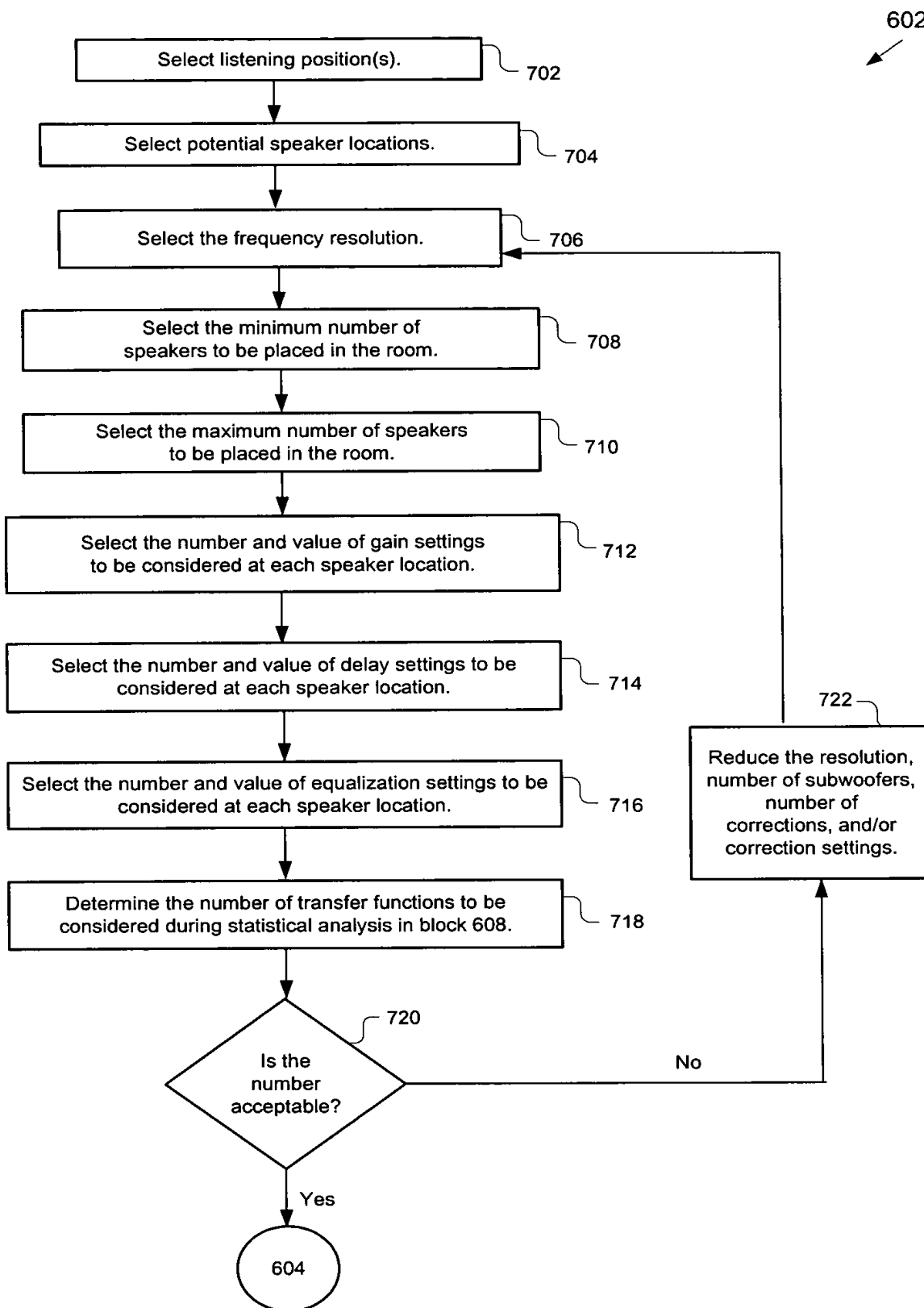


FIG. 8

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↙

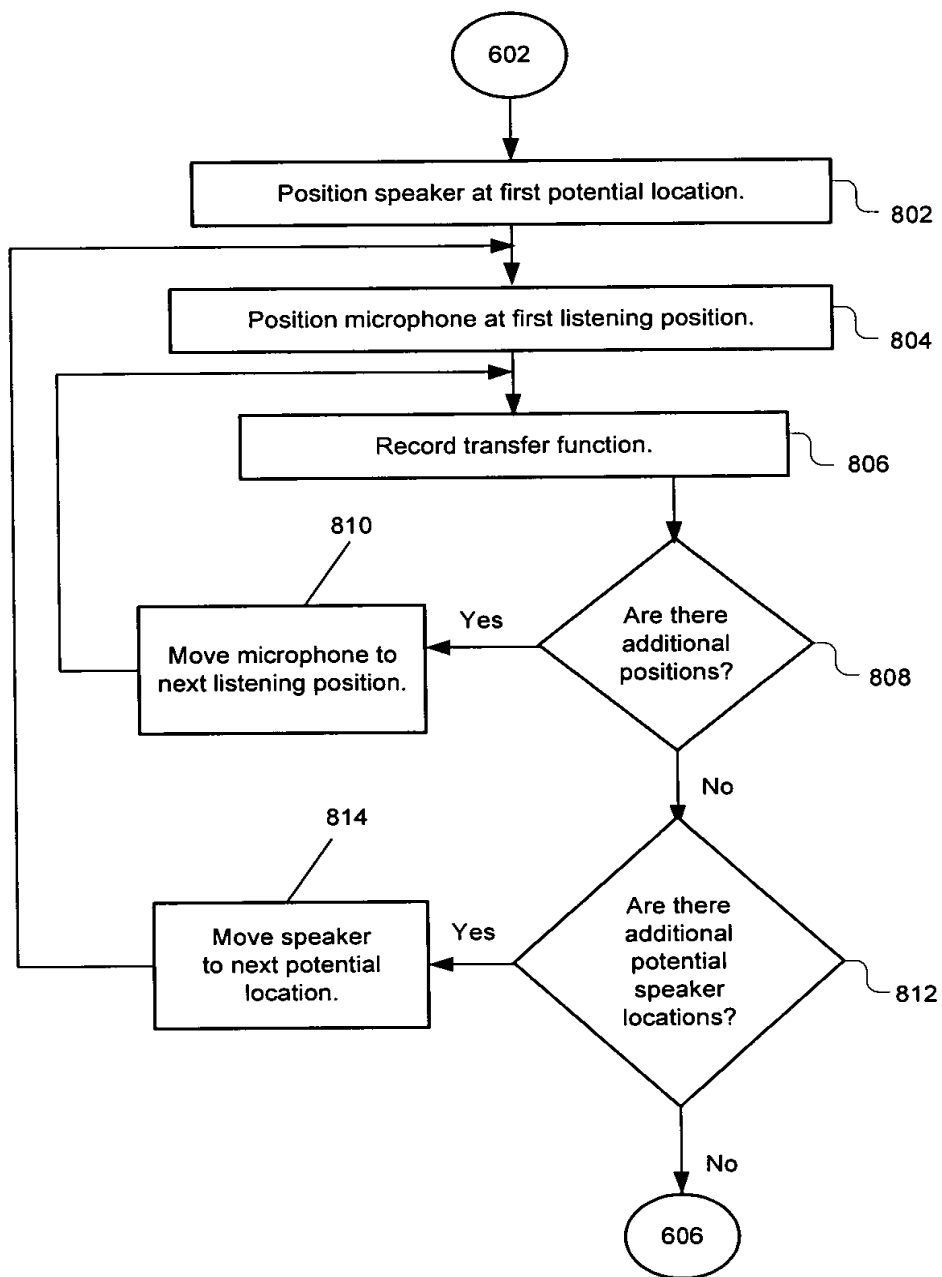
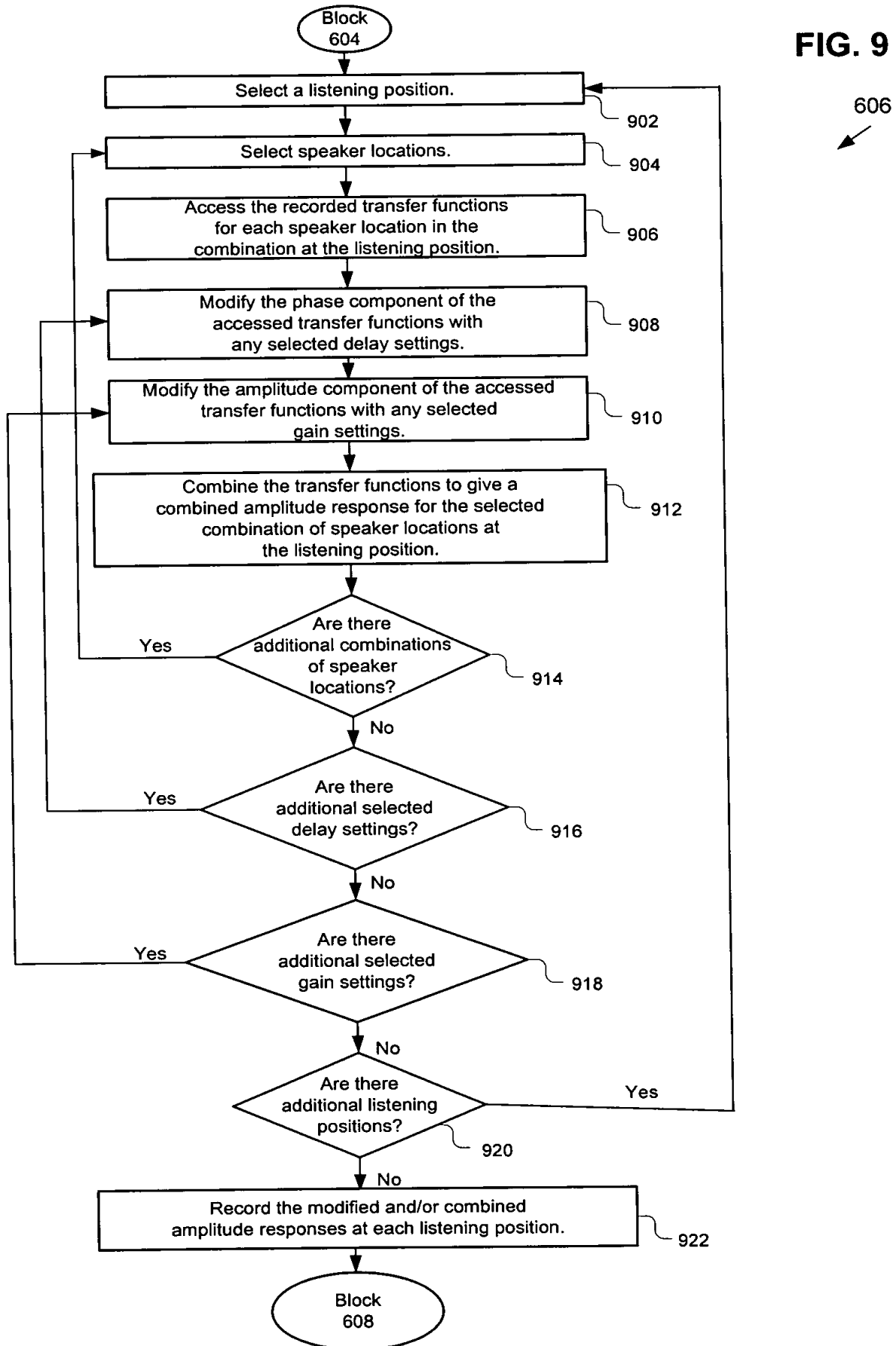




FIG. 9



frequency	Raw Data					Spatial Average	Spatial Variance	Spatial STDEV	Spatial Envelope	Spatial Max-ave
	seat 1	seat 2	seat 3	seat 4	seat 5					
20	-17.71	-16.38	-18.13	-14.51	-12.99	-15.94	4.72	2.17	5.14	2.96
22	-16.60	-15.62	-15.44	-5.07	-6.21	-11.79	31.88	5.65	11.53	6.72
24	-17.26	-24.25	-20.21	-10.22	-13.12	-17.01	31.00	5.57	14.03	6.79
26	-11.73	-14.44	-16.10	-8.19	-9.83	-12.06	10.53	3.25	7.92	3.87
28	-11.72	-14.14	-13.79	-3.30	-8.24	-10.24	20.54	4.53	10.83	6.94
30	-19.70	-17.51	-13.79	-8.16	-8.69	-13.57	26.58	5.16	11.54	5.41
32	-22.44	-22.50	-19.69	-13.33	-12.41	-18.07	23.96	4.90	10.09	5.66
34	-19.80	-19.50	-21.25	-17.85	-16.70	-19.02	3.14	1.77	4.55	2.32
36	-19.06	-19.48	-18.22	-13.00	-19.80	-17.91	7.89	2.81	6.80	4.91
38	-19.83	-17.91	-20.68	-14.88	-23.61	-19.38	10.54	3.25	8.73	4.50
40	-18.75	-16.72	-17.08	-20.89	-22.82	-19.25	6.71	2.59	6.10	2.53
42	-15.02	-13.59	-14.73	-18.38	-21.44	-16.63	10.41	3.23	7.85	3.04
44	-13.85	-12.98	-13.78	-21.20	-18.60	-16.08	13.10	3.62	8.22	3.10
46	-15.85	-13.80	-12.74	-18.62	-13.84	-14.97	5.43	2.33	5.88	2.23
48	-16.58	-12.29	-15.48	-14.20	-10.02	-13.71	6.80	2.61	6.55	3.69
50	-6.76	-4.32	-7.56	-12.47	-6.48	-7.52	9.09	3.02	8.15	3.20
52	0.47	2.07	-0.50	-7.13	-0.89	-1.19	12.33	3.51	9.21	3.27
54	5.22	7.20	5.79	-0.33	5.60	4.70	8.45	2.91	7.53	2.50
56	5.60	7.68	6.99	2.99	8.86	6.42	5.07	2.25	5.87	2.44
58	4.13	5.71	5.20	2.36	8.14	5.11	4.52	2.13	5.78	3.03
60	1.31	2.94	3.23	2.15	6.85	3.30	4.50	2.12	5.54	3.55
62	-0.95	0.43	1.43	-0.04	2.53	0.68	1.80	1.34	3.47	1.85
64	-6.34	-4.22	-2.79	-1.93	0.77	-2.90	7.00	2.64	7.11	3.67
66	-6.57	-3.47	-1.77	-6.68	-4.59	-4.62	4.37	2.09	4.91	2.85
68	-2.12	0.25	1.84	-18.61	-7.12	-5.15	68.03	8.25	20.45	6.99
70	-6.24	-4.01	-0.33	-5.86	-1.09	-3.51	7.29	2.70	5.91	3.17
72	-5.02	-1.94	-3.21	-4.27	-1.03	-3.09	2.68	1.64	3.99	2.06
74	-6.33	-1.93	0.01	-9.78	-10.56	-5.72	21.88	4.68	10.57	5.73
76	-8.14	-3.79	-1.29	-12.48	-18.59	-8.86	47.82	6.92	17.30	7.57
78	-21.63	-9.69	-4.21	-16.46	-8.91	-12.18	47.03	6.86	17.42	7.97
80	-5.65	-10.12	-6.63	-11.59	-5.71	-7.94	7.50	2.74	5.94	2.29
Mean Level	-10.16	-8.66	-8.22	-9.74	-8.08	Mean Overall Level	Mean Spatial Variance	Mean Spatial STDEV	Mean Spatial Envelope	Mean Spatial Max-ave
Mean Overall Level			-8.97			-8.97	15.24	3.52	8.55	4.09
Variance of Mean Levels			0.86							
STDEV of Mean Levels			0.93							
Envelope of Mean Levels			2.08							
Max-ave of Mean Levels			0.89							
							Variance of Spatial Average	STDEV of Spatial Average	Envelope of Spatial Average	Max-ave of Spatial Average
							62.7919	7.924135	25.80	15.39

FIG. 10

FIG. 11

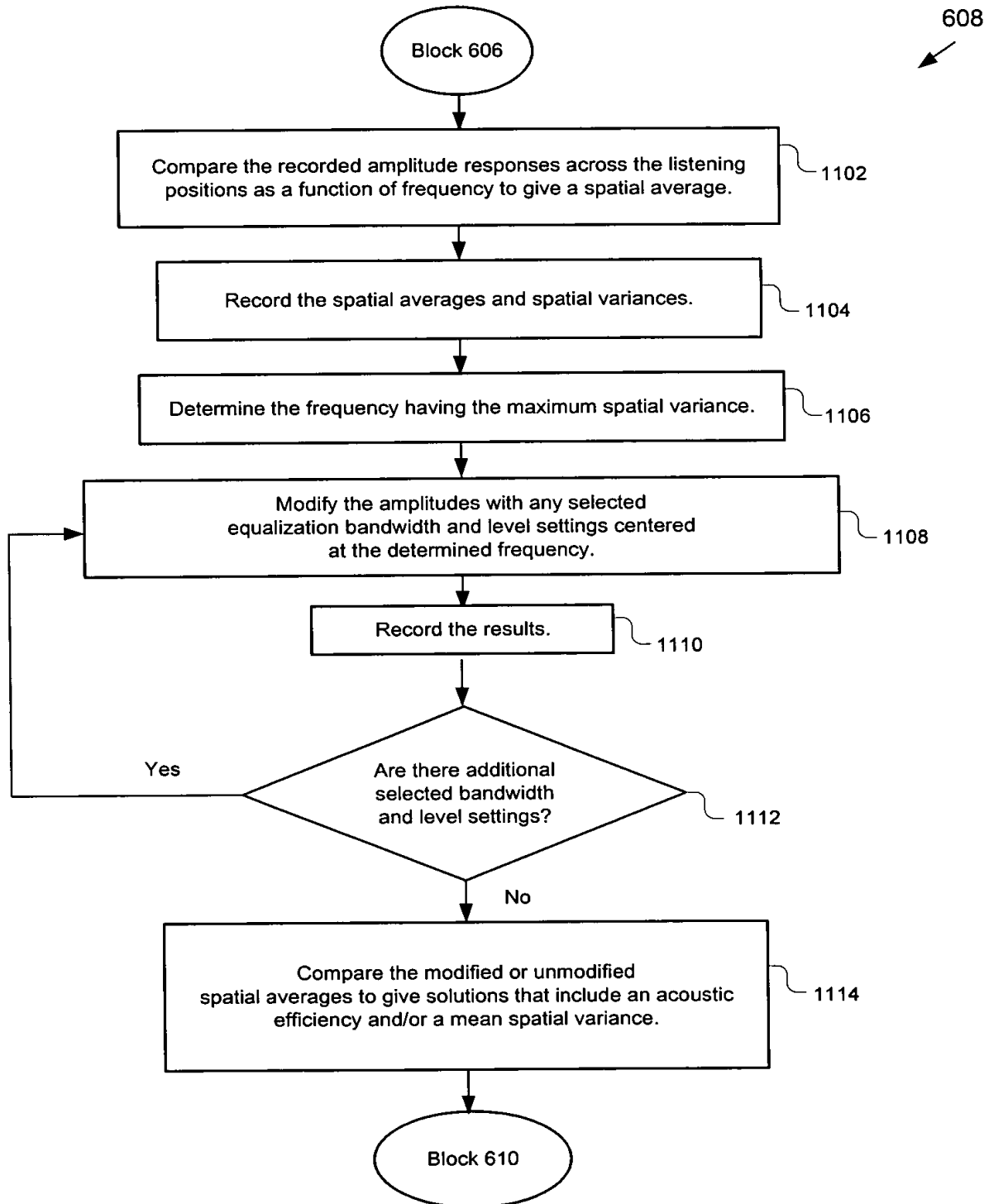
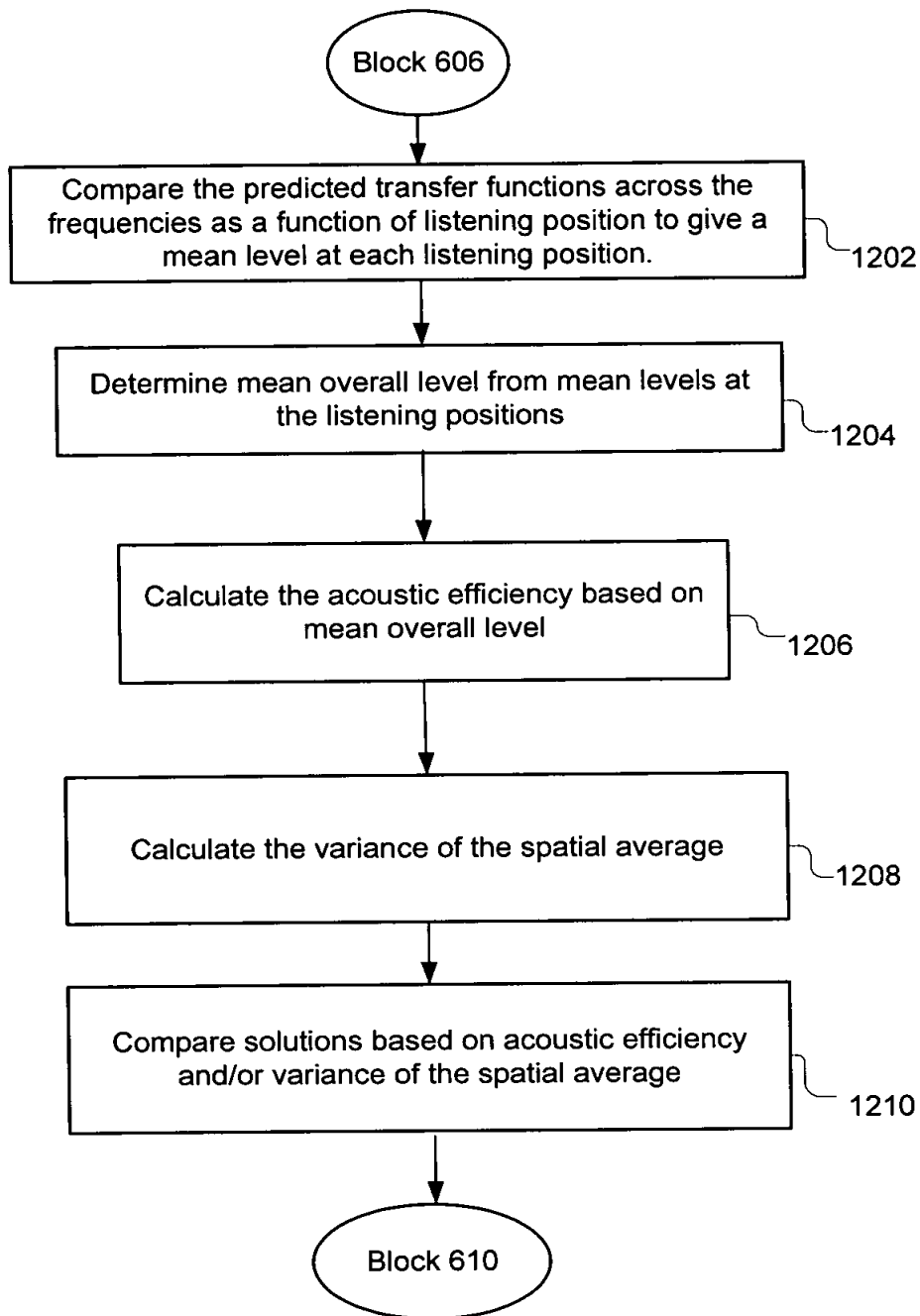


FIG. 12

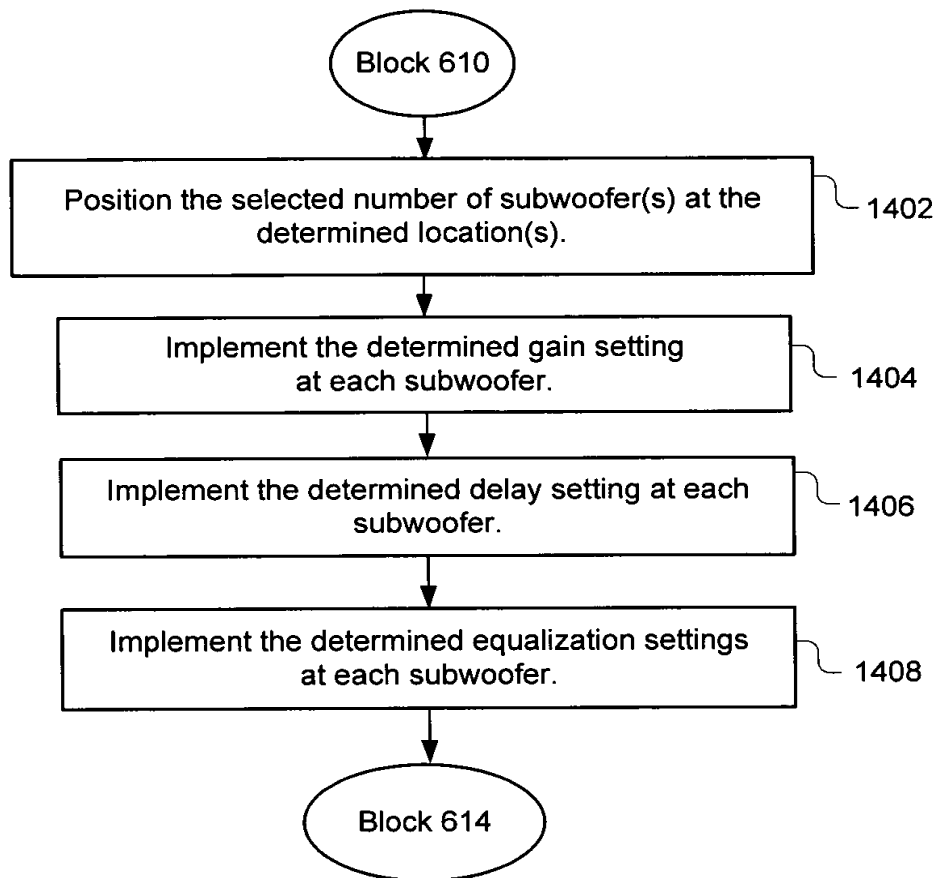


## FIG. 13

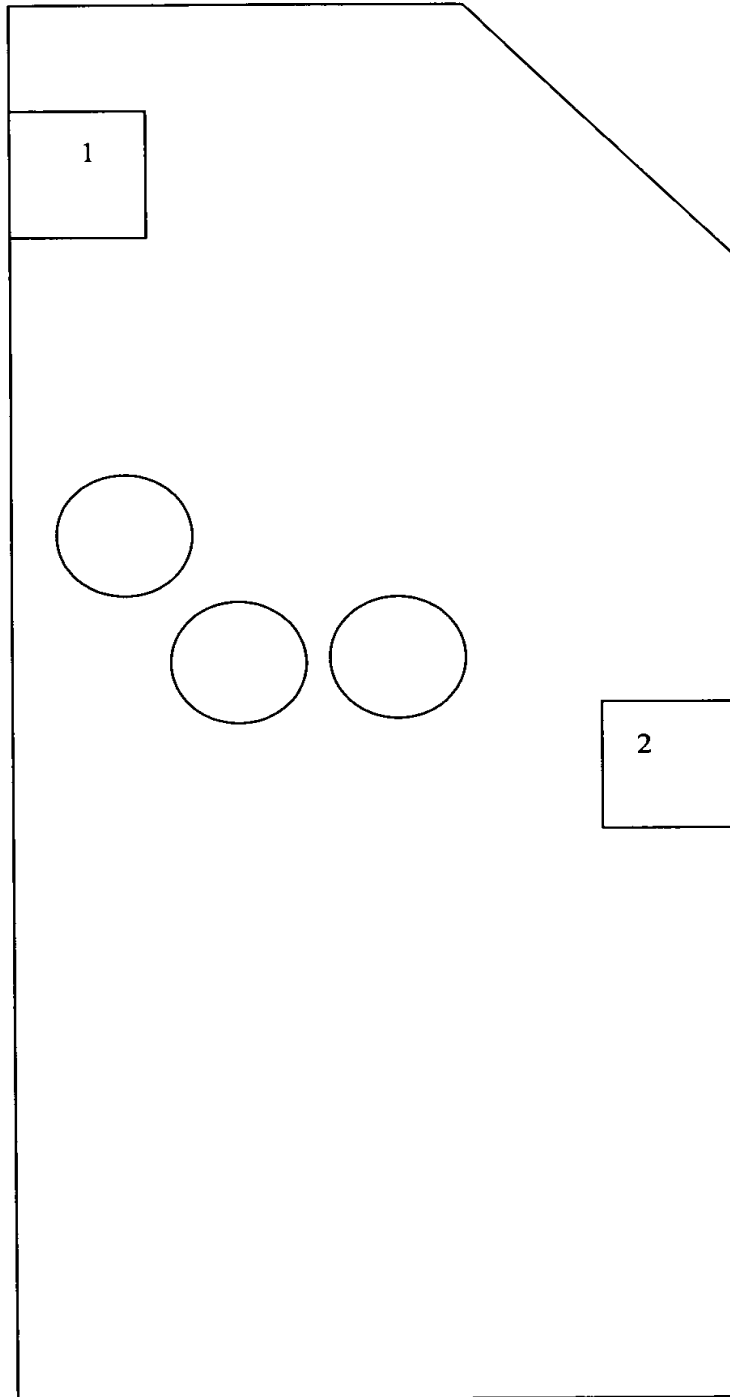
Illustrative Solution Sets Ranked by Spatial Variance

Solution	MSV	AE	VSA	S	Gain (dB)	Delay (ms)	Eq. Center (Hz)	Eq Bandwidth (Q)	Eq. Level (dB)
1	4.0	12	18	1, 2	0, 0	0, 5	82, 37	1, 4	0, -6
2	4.4	19	15	1, 2, 3	-6, 0, -12	0, 10, 0	22, 64, 85	1, 4, 1	-12, 0, -6
3	5	14	13	2, 3	-6, 0	10, 0	27, 41	8, 1	-6, -12
4	6	10	16	3, 4	-12, 0	0, 0	93, 51	1, 8	-12, 0
5	10	23	20	1, 3, 4	0, -12, 0	5, 0	34, 86	1, 1, 8	0, 0, -12
10,000	17	2	56	1, 4	-6, -12	0, 10	27, 91	8, 8	-6, -12, -6

**FIG. 14**



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**FIG. 15**

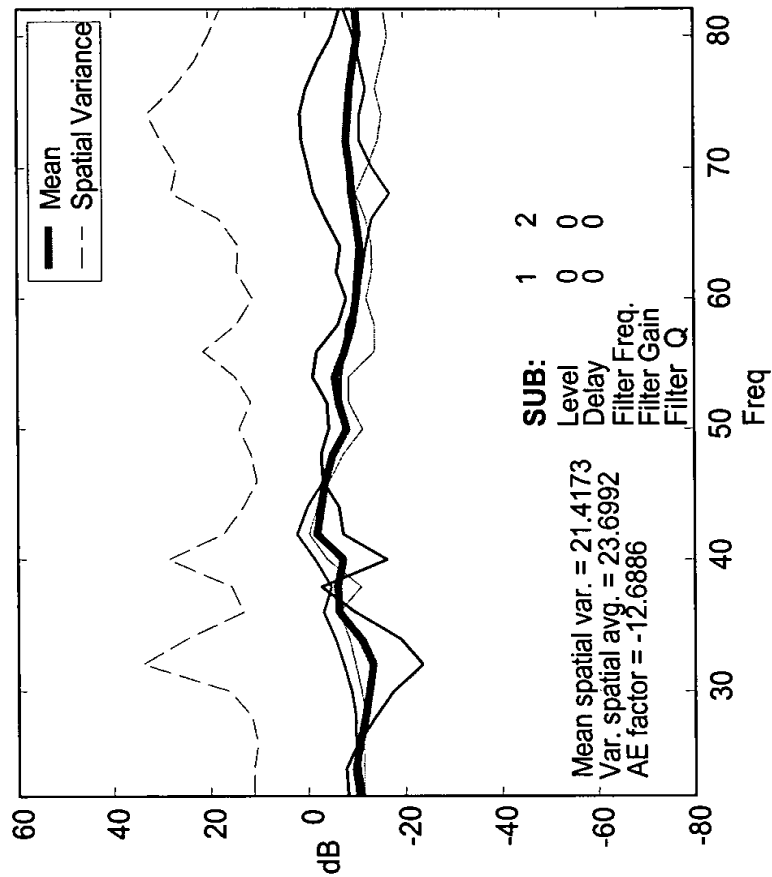


FIG. 16



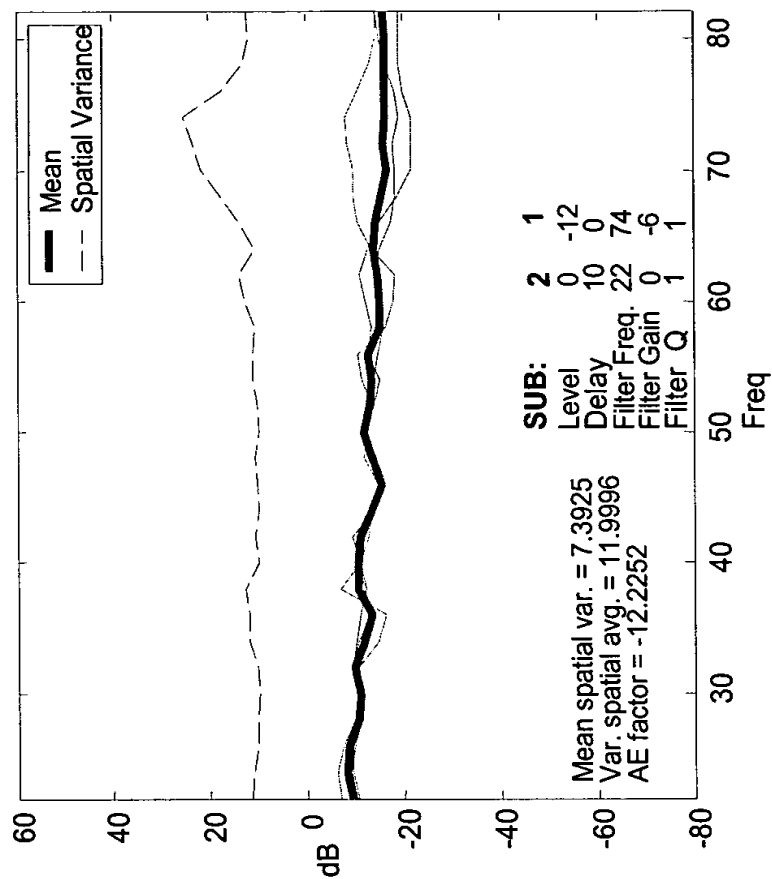
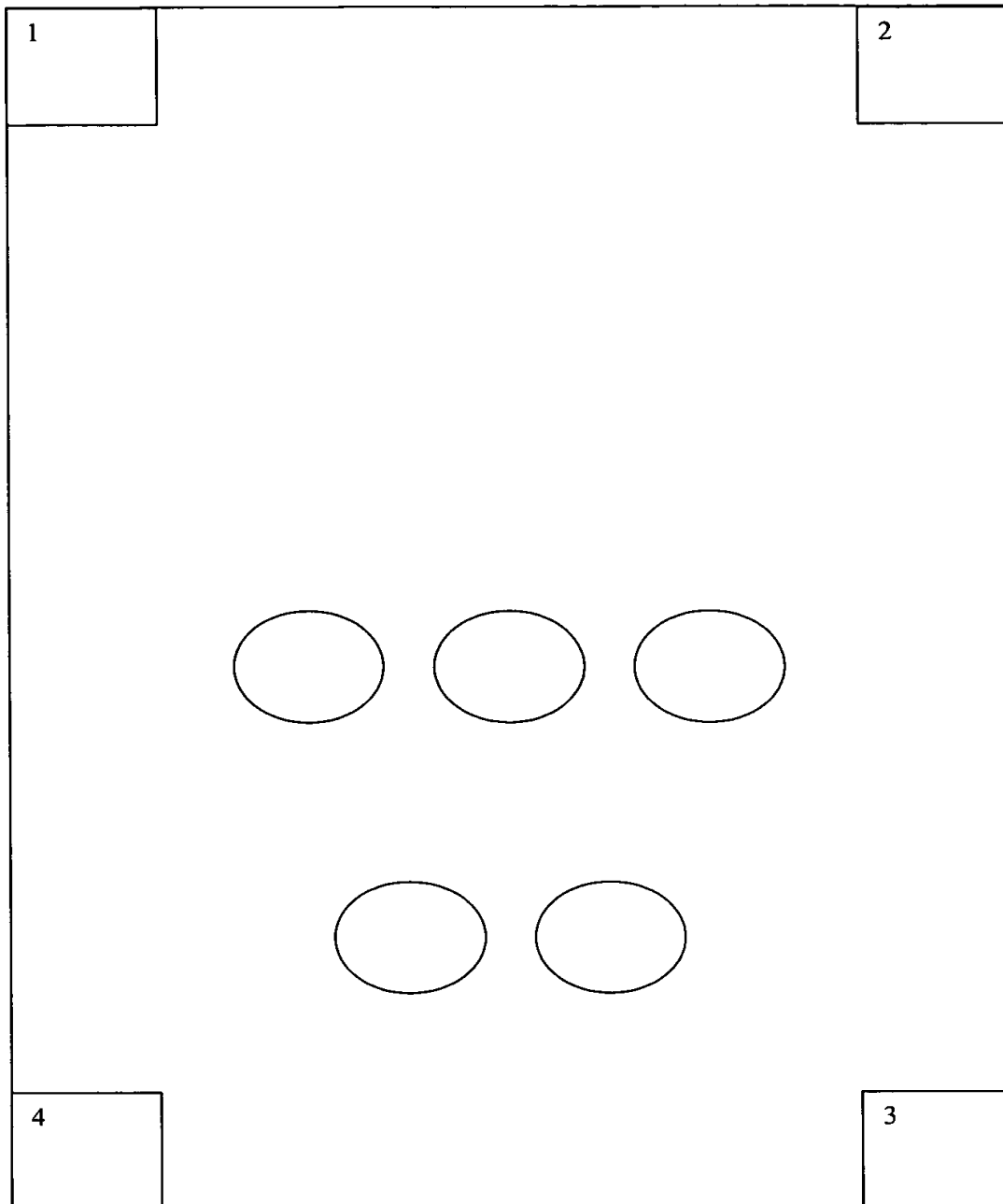
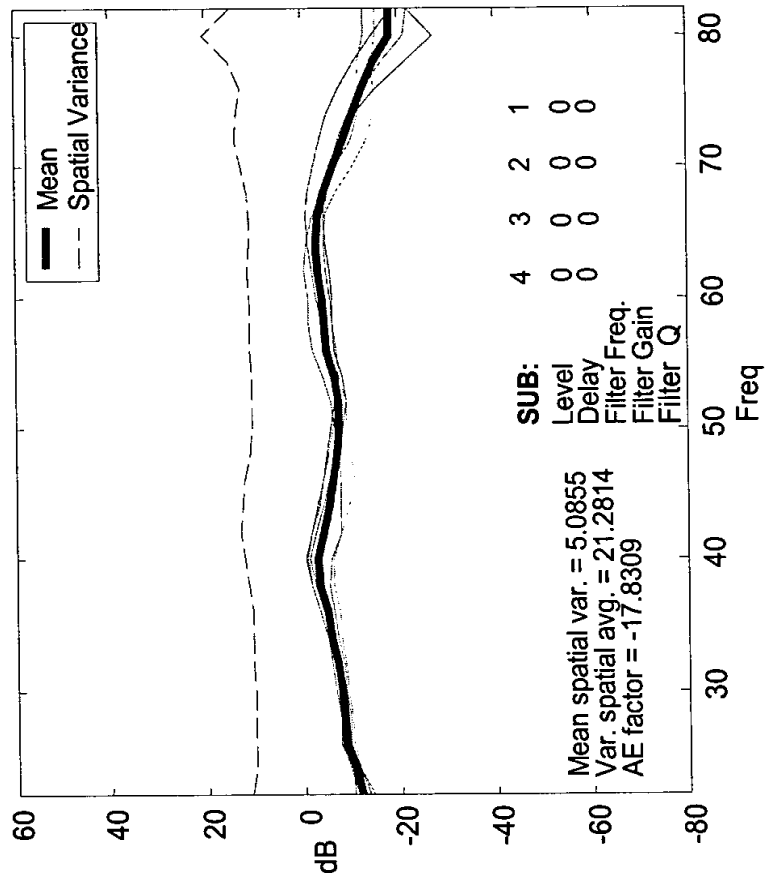


FIG. 17



**FIG. 18**



**FIG. 19**

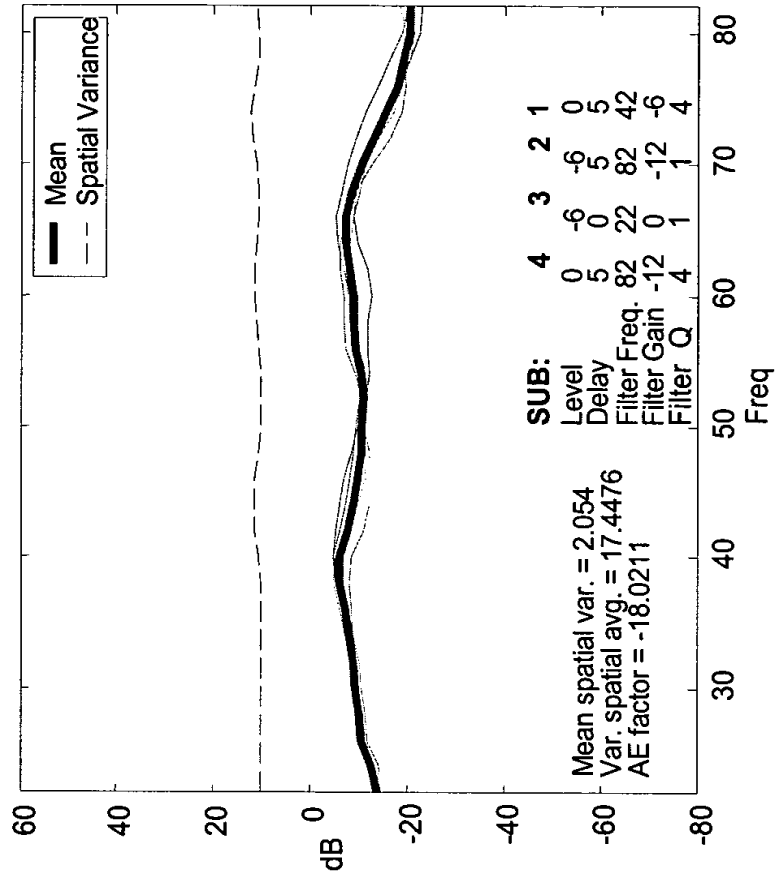


FIG. 20

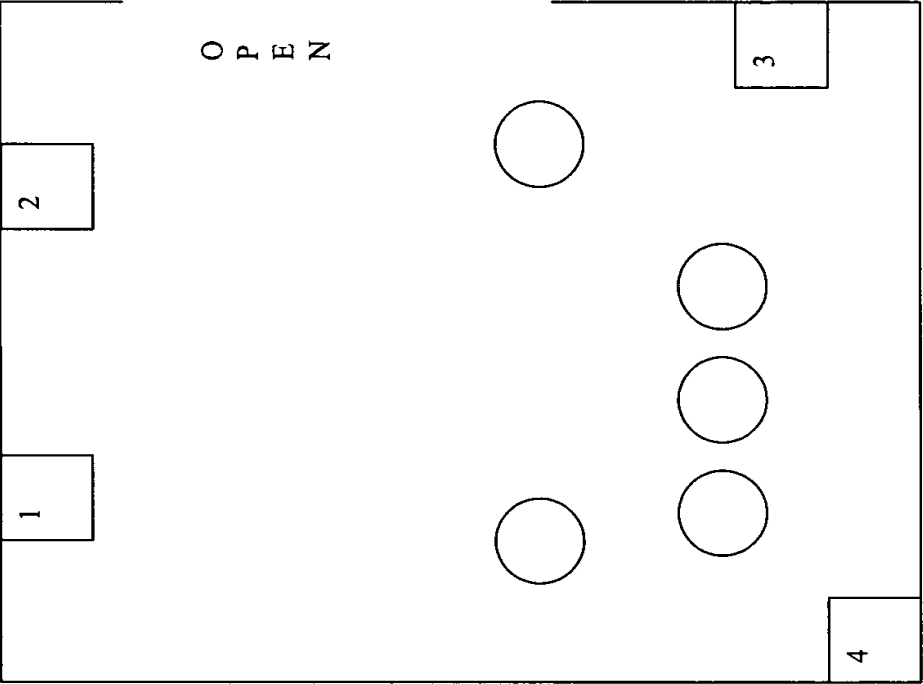


FIG. 21

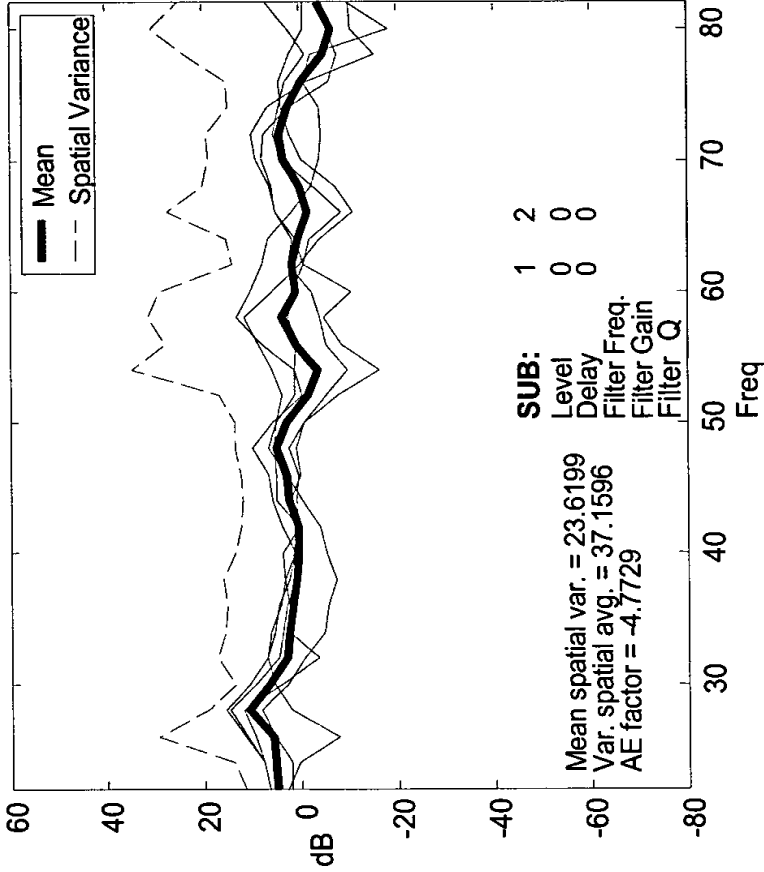


FIG. 22

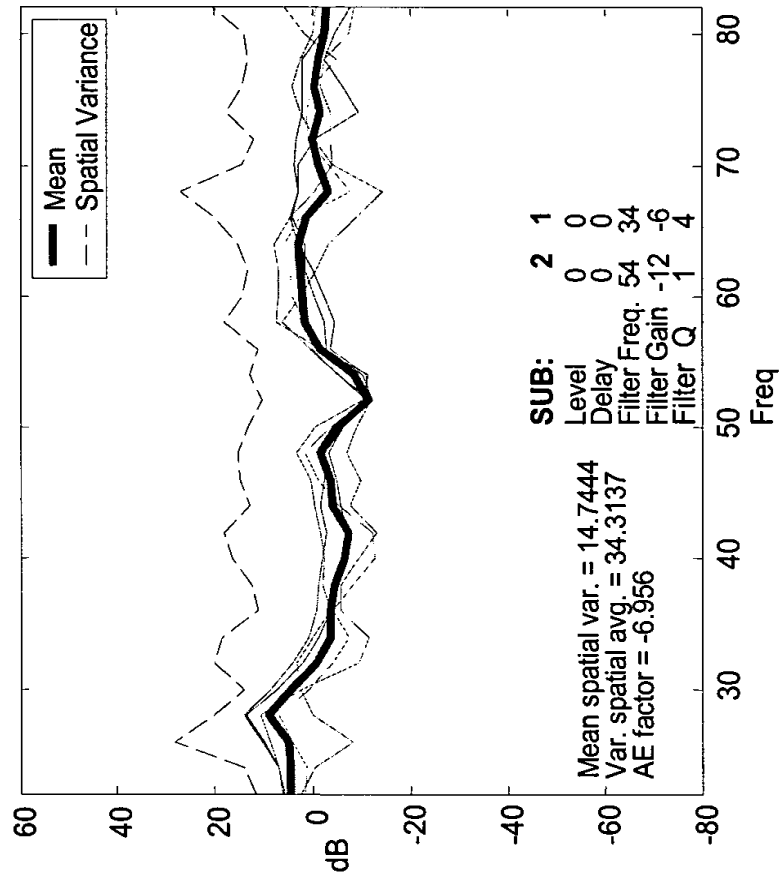
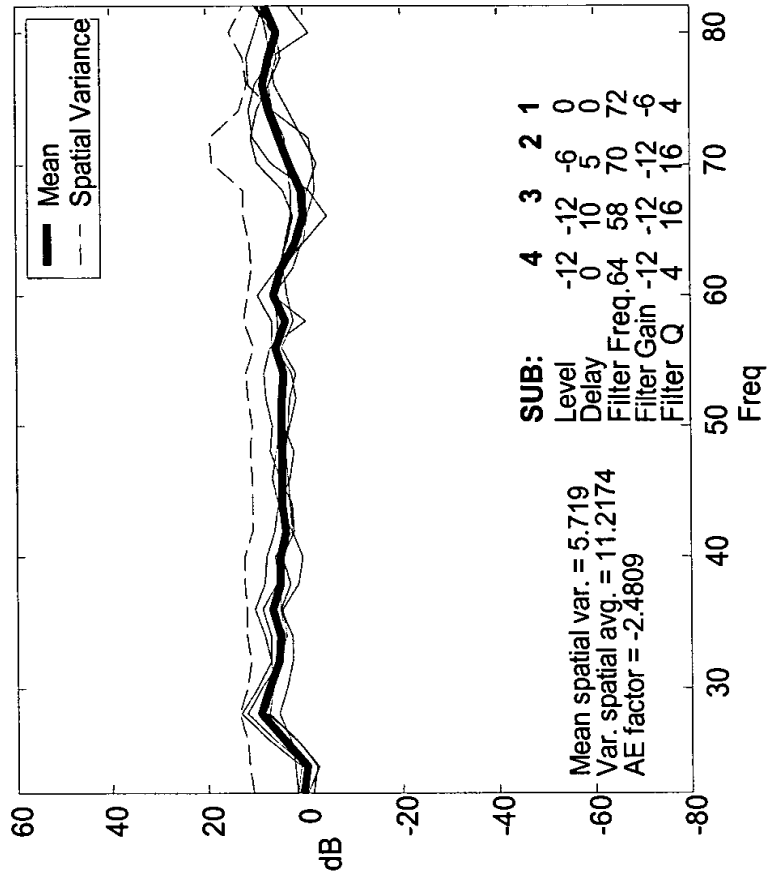
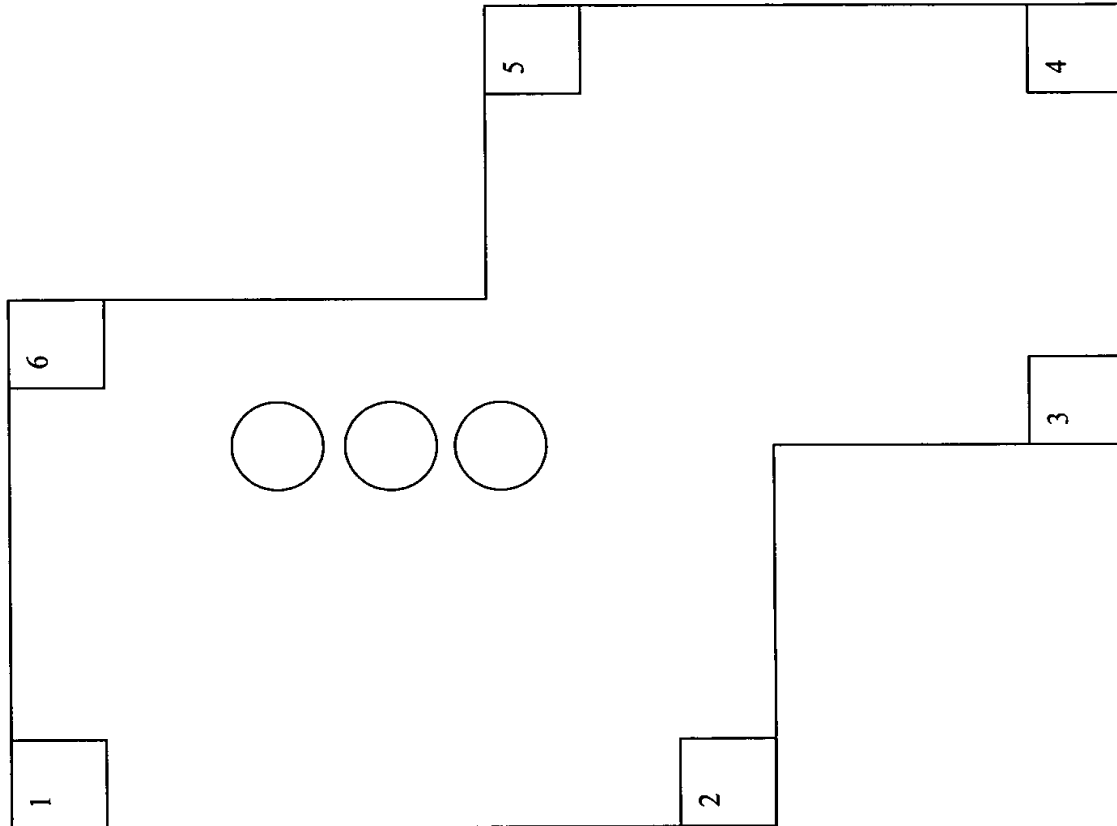


FIG. 23



**FIG. 24**





**FIG. 25**

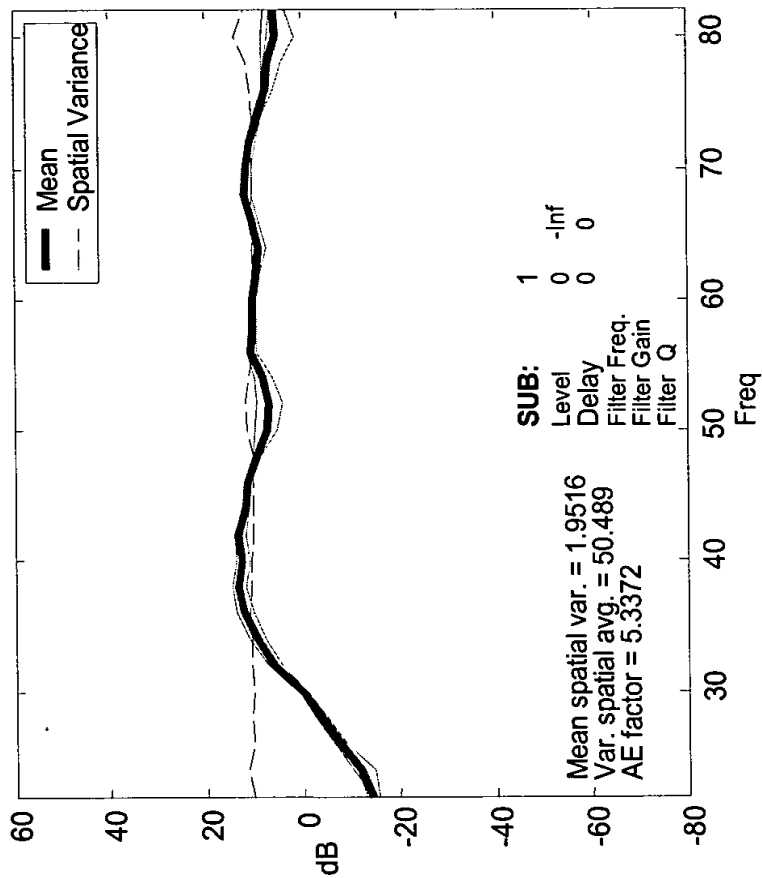


FIG. 26

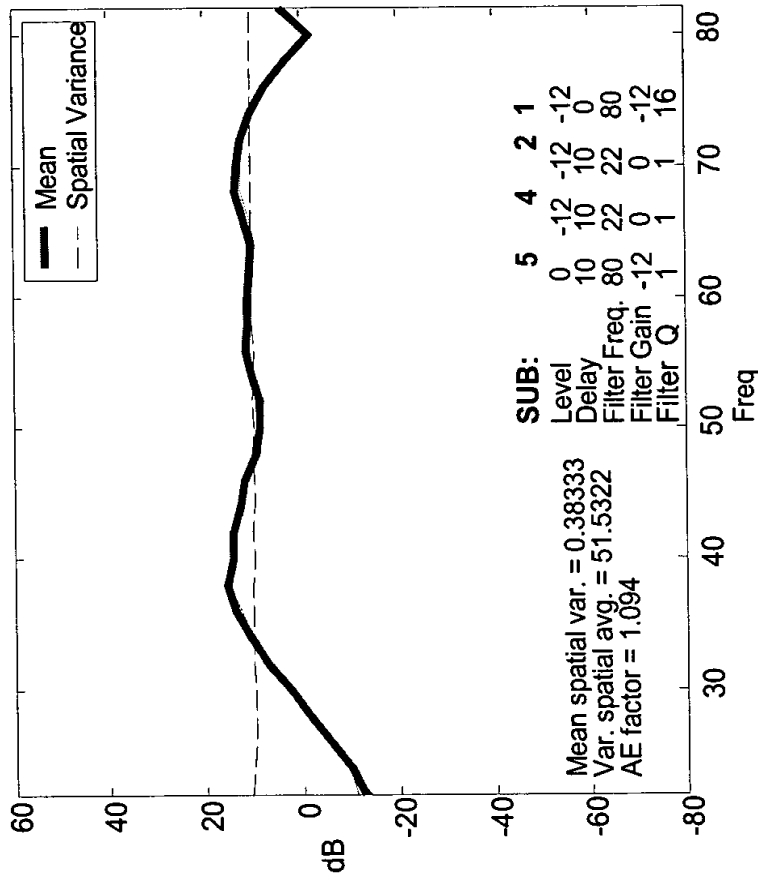
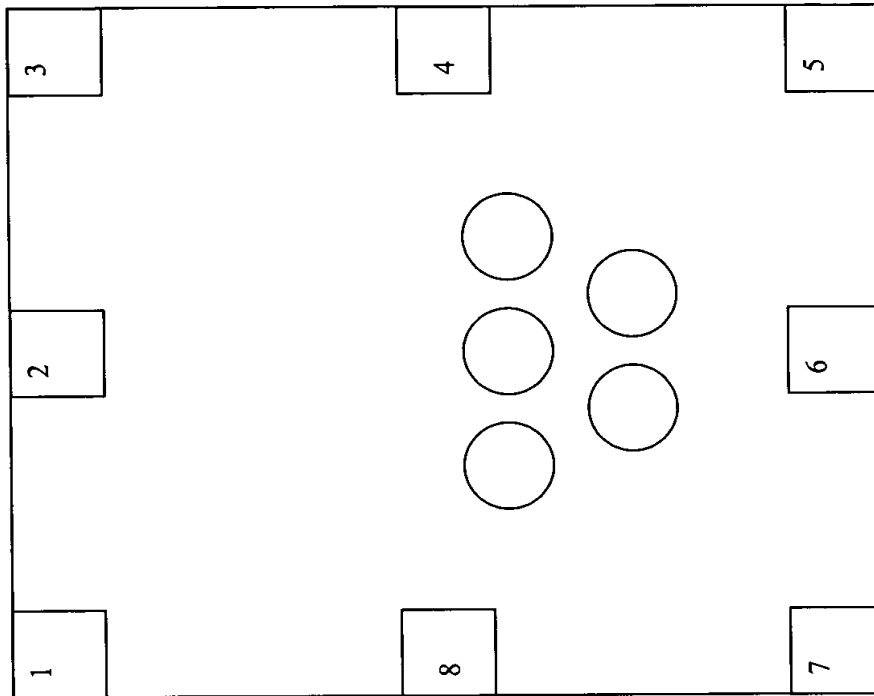


FIG. 27



**FIG. 28**

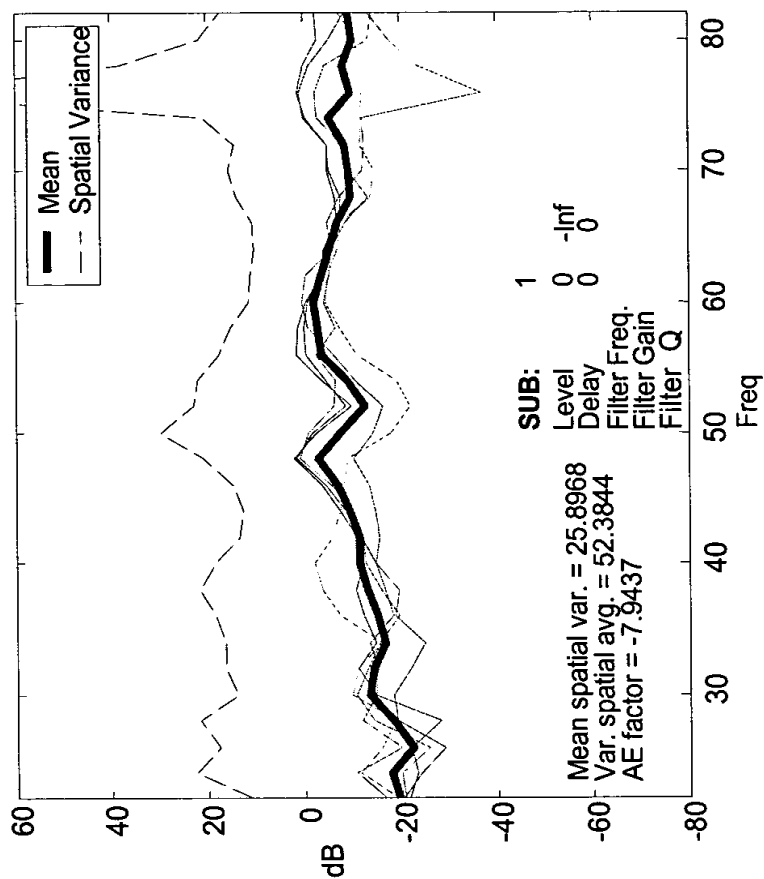


FIG. 29

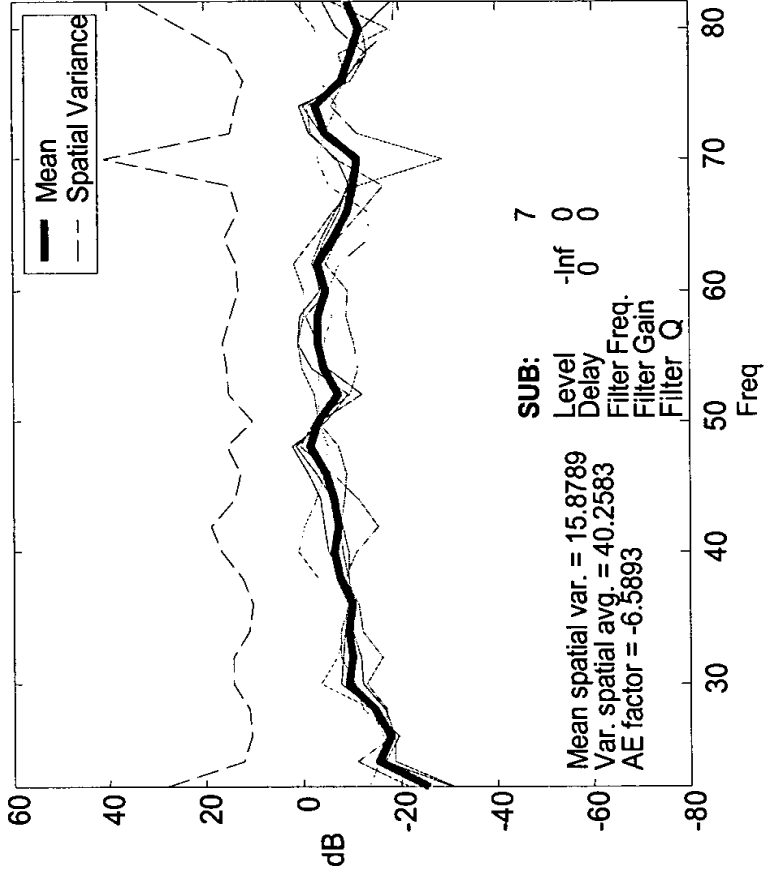
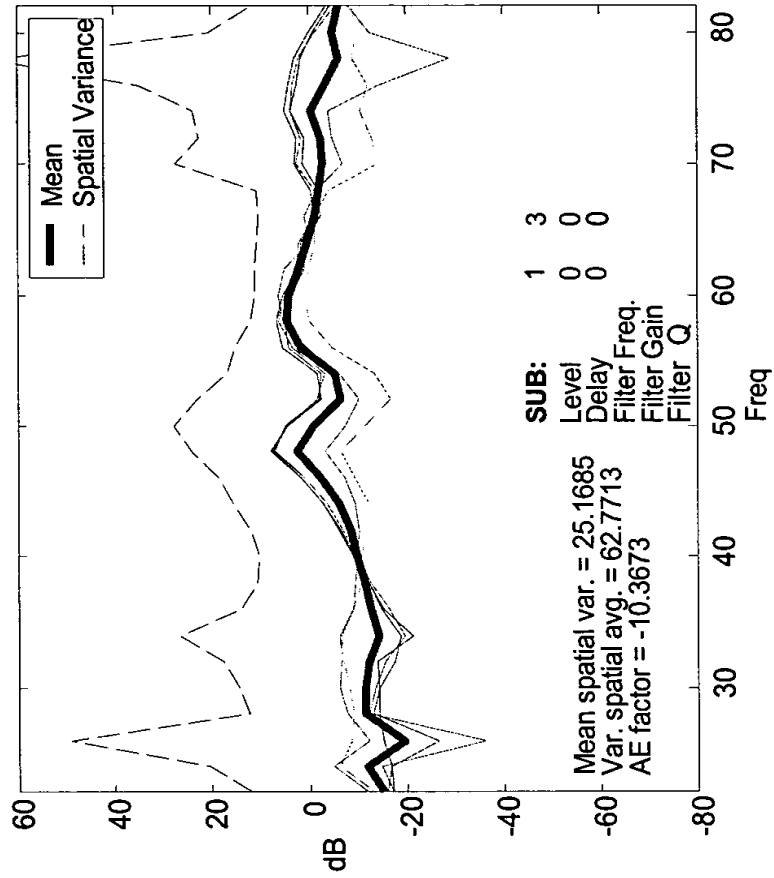


FIG. 30



**FIG. 31**

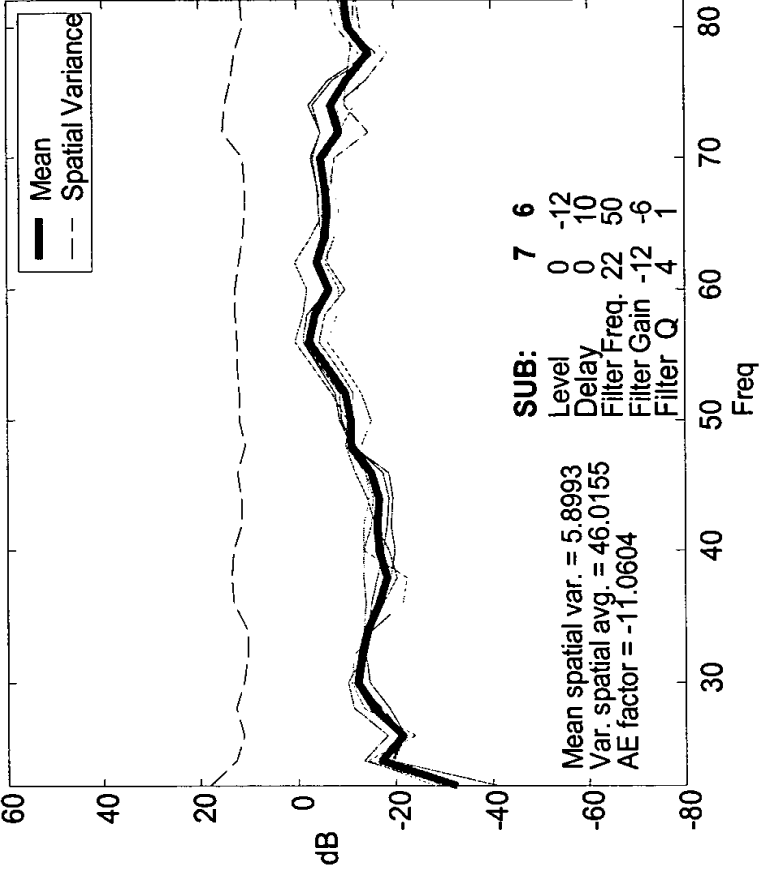


FIG. 32



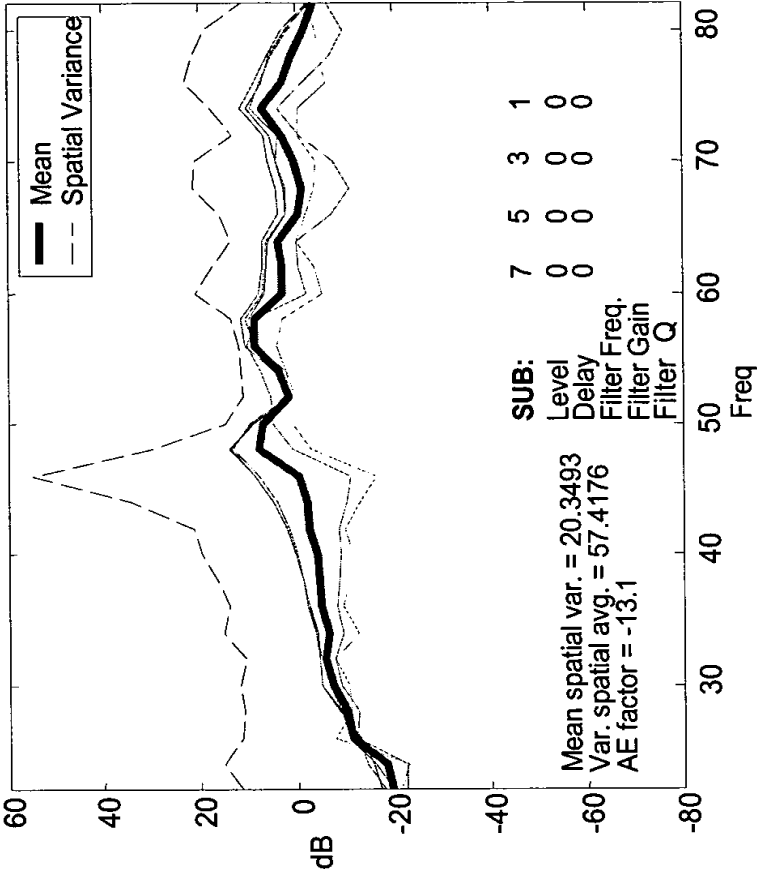


FIG. 33

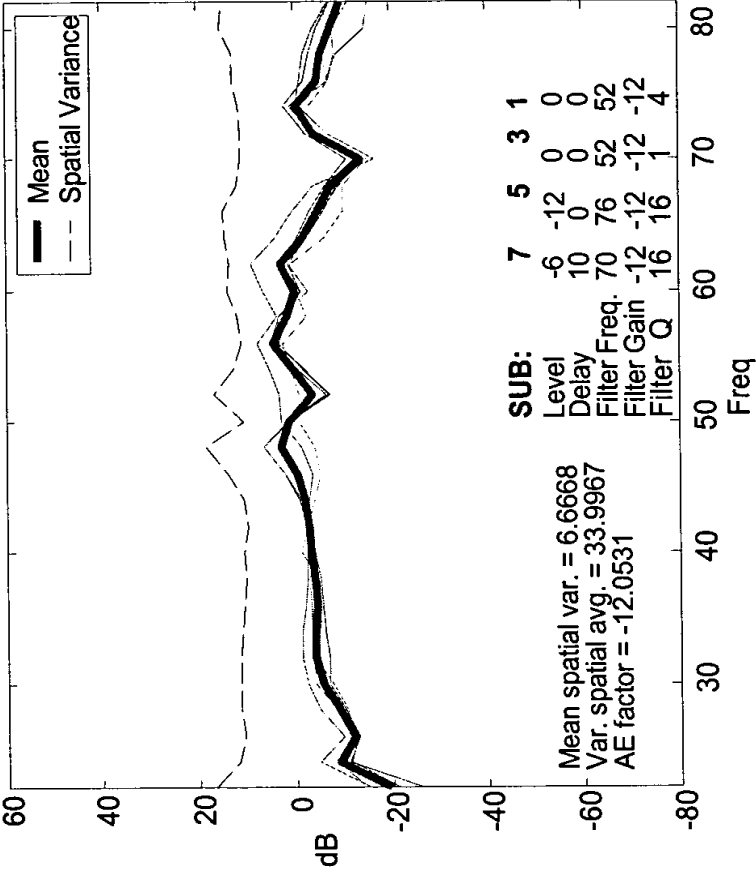
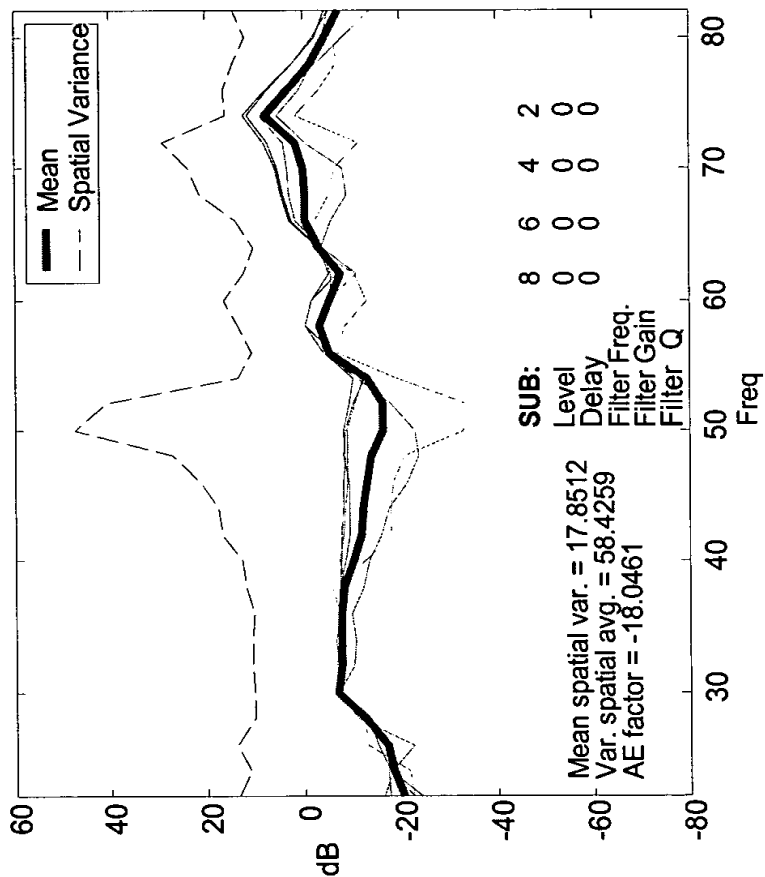


FIG. 34



**FIG. 35**

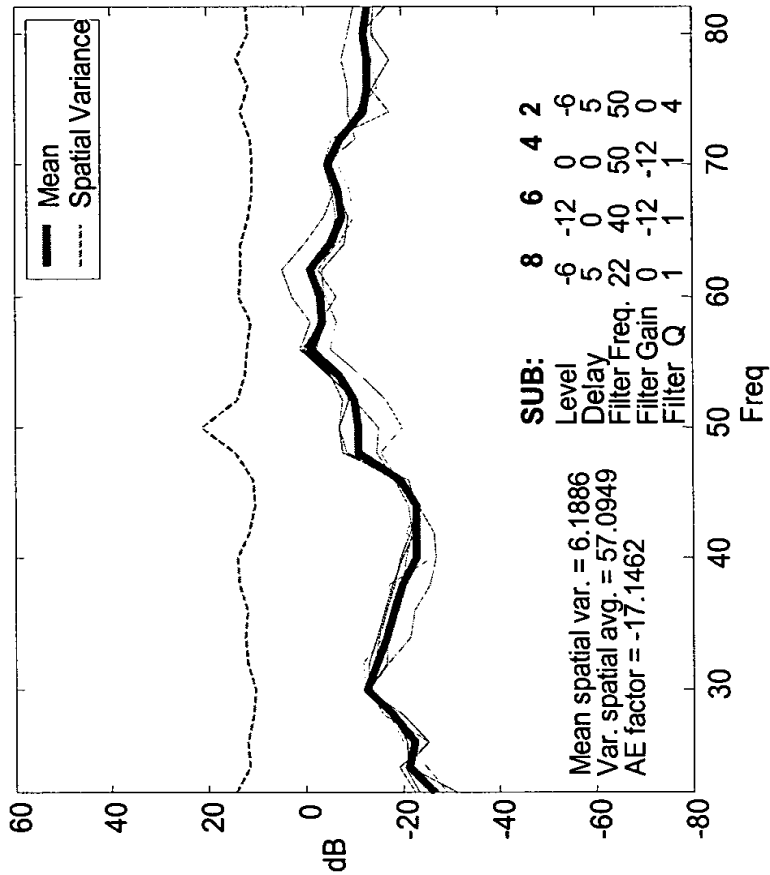


FIG. 36

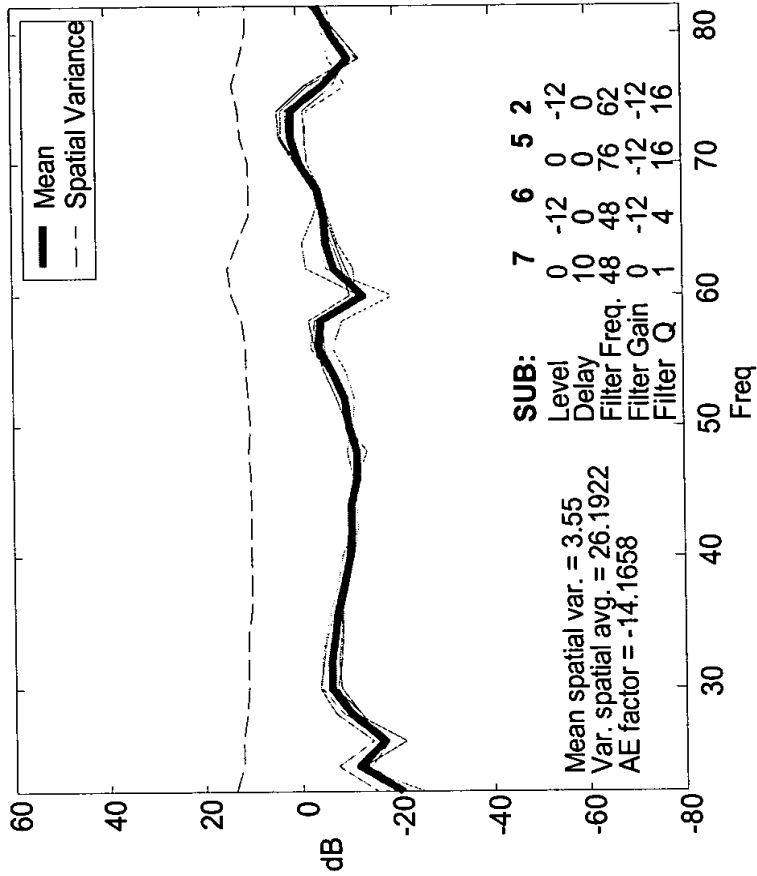


FIG. 37

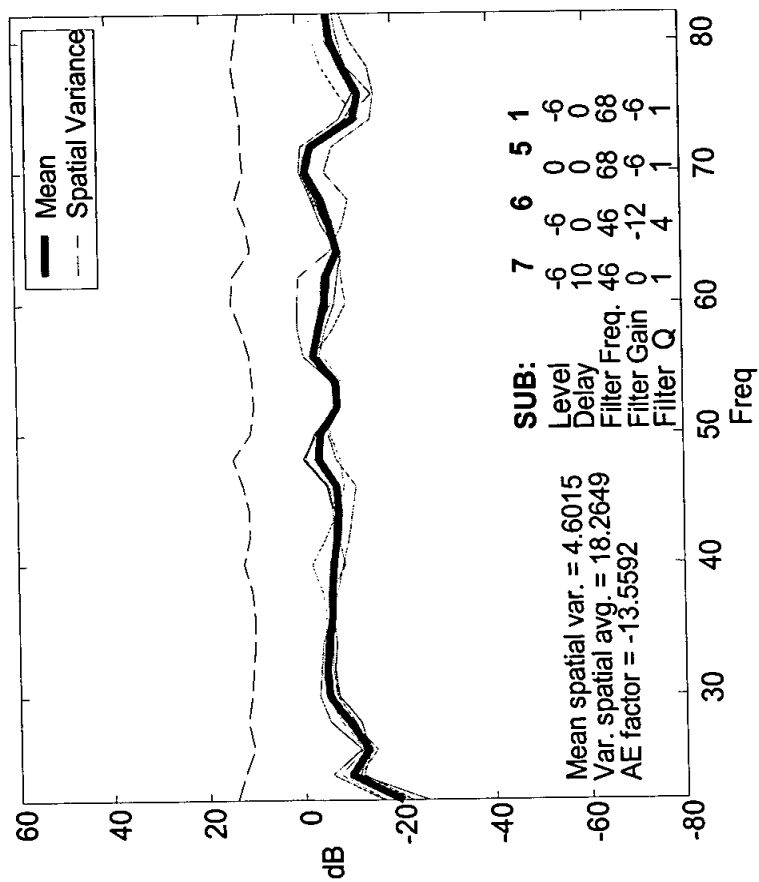


FIG. 38

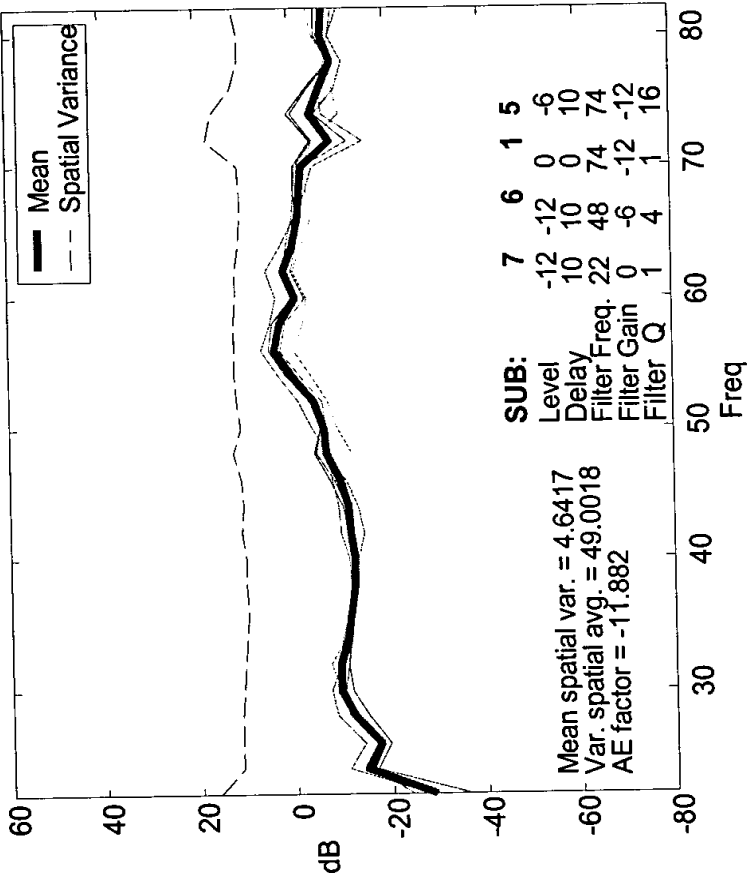
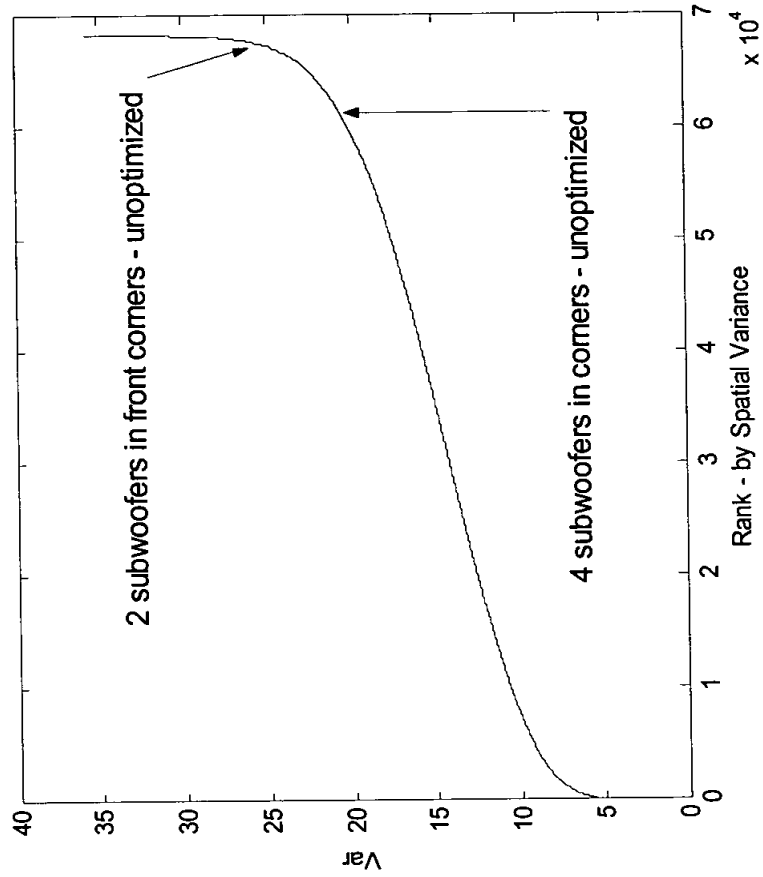


FIG. 39



**FIG. 40**



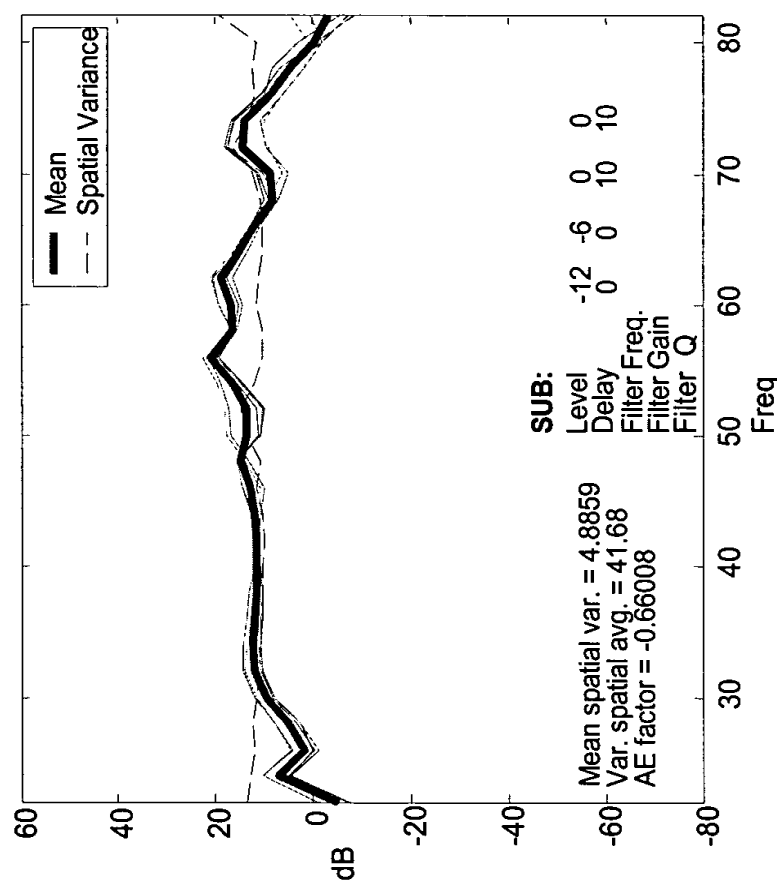
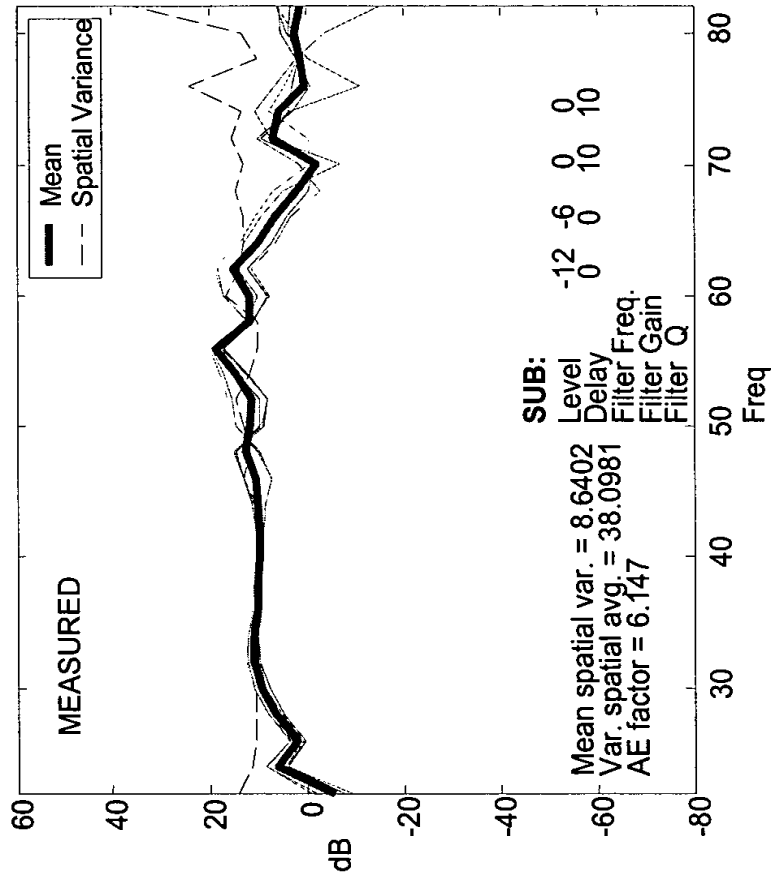


FIG. 41



**FIG. 42**